

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A hydraulic coupling system, comprising
a pump;
a clutch assembly including an actuator and a multi-disk clutch pack coupled to the actuator, the pump pressuring a fluid in the actuator to engage the clutch pack and pumping the fluid through the clutch pack to cool the clutch pack;
a pressure control ~~valve~~ communication communicating with a reservoir, the actuator and the clutch pack ~~valve~~ for maintaining the fluid pumped to the actuator at a higher pressure than the pressure of the fluid pumped through the clutch pack to cool the clutch; and
a two-way valve which provides a preload pressure to the system when the pump is not operating and the clutch pack is disengaged; and
a controller which transmits pulse-width modulated control signals to the pump to control the operation of the pump and pulse-width modulated control signals to the valve to control the operation of the valve.
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Currently Amended) The system of claim 1 ~~further comprising wherein~~ the two-way valve is a pilot valve which provides a preload pressure to the system when the pump is not operating and the clutch pack is disengaged.
6. (Original) The system of claim 1 further comprising an accumulator for compensating for fluid leakage in the system.

7. (Original) The system of claim 1 wherein the pump is a gerotor, vane or gear pump.